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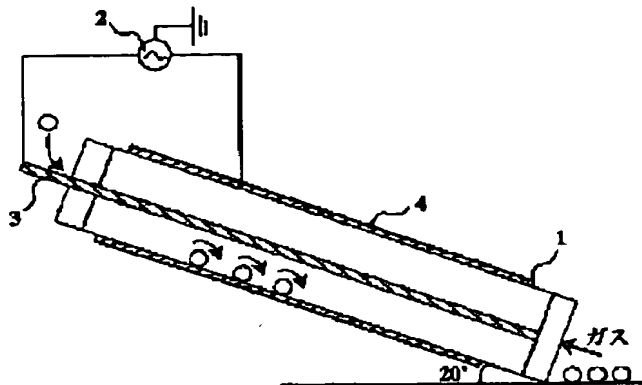
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TITLE : ARTICLE FOR IMMUNOASSAY



ABSTRACT : PROBLEM TO BE SOLVED: To simplify the operation of Immunoassay and to dispense with a strict condition by fluorinating the surface of a region bearing immunoreaction by discharge plasma treatment to enhance the adsorbing characteristics thereof.

SOLUTION: For example, beads made of polystyrene are subjected to discharge plasma treatment under pressure near to atmospheric pressure within an apparatus wherein internal and external electrodes 3, 4 are arranged in a treatment container 1 made of a dielectric such as glass and an AC power supply 2 is provided. Beads are continuously supplied from above and mixed gas obtained by diluting F-containing gas such as C_3F_8 by inert gas such as He is supplied from below. For example, if voltage of 15kHz and 10kV is applied across electrodes to generate discharge plasma, beads of which the entire surfaces are subjected to discharge plasma treatment are obtained and the F/C ratio of the surfaces of them is about 2. These beads are high and uniform in the adsorbing property of an antibody as compared with untreated beads. Even with respect to microtiter plate, the same result can be obtained by a method similar to the above mentioned method.

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